

Adventures in Aeronautics			
2006 Mathematics			
Grade Level Expectations			
Delaware Mathematics			
Grade 3			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	DE	MA.3.1.1.2	Connect counting up and counting back to addition and subtraction
Adventures in Aeronautics	DE	MA.3.1.2.1	Add and subtract numbers up to 100 efficiently and explain the strategies used
Adventures in Aeronautics	DE	MA.3.1.2.3	Develop and use strategies to estimate the results of addition and subtraction operations on whole numbers
Adventures in Aeronautics	DE	MA.3.1.2.4	Use pictures and number sentences to represent multiplication and division problems
Adventures in Aeronautics	DE	MA.3.1.2.5	Develop the concept of multiplication by using models to represent and count the number of groups and the number of elements in each group (e.g., repeated addition, arrays, skip counting)
Adventures in Aeronautics	DE	MA.3. 2.2.1	Model situations that involve the addition, subtraction, and multiplication of whole numbers using objects, pictures, symbols, and geometric models
Adventures in Aeronautics	DE	MA.3. 2.3.2	Develop an understanding of the Commutative and Associative properties of whole number addition as a tool to solve problems (e.g., is $3 + (7 + 2)$ always the same as $(3 + 7) + 2$?)
Adventures in Aeronautics			
2006 Mathematics			
Grade Level Expectations			
Delaware Mathematics			
Grade 4			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	DE	MA.4. 1.2.2	Add and subtract larger numbers (e.g., three digits + two digits) and explain how the operation works
Adventures in Aeronautics	DE	MA.4. 1.2.3	Demonstrate mastery of mental math strategies for multiplying numbers (e.g., 25×8)
Adventures in Aeronautics	DE	MA.4. 2.2.1	Model situations that involve the addition, subtraction, multiplication and division of whole numbers using objects, pictures, geometric model, and symbols
Adventures in Aeronautics	DE	MA.4. 2.3.2	Develop an understanding of the Commutative and Associative Properties of whole number multiplication as a tool to solve problems (e.g., is 4×5 always the same as 5×4 ?)
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Grade 5			
Activity/Lesson	State	Standards	
Adventures in Aeronautics	DE	MA.5. 1.2.2	Multiply and divide by large numbers (e.g., two digits by two digits) and show why the operation works
Adventures in Aeronautics	DE	MA.5. 1.2.3	Use multiplication clusters to build mental math strategies (e.g., 5x2, 5x20, 50x2, 50x20)
Adventures in Aeronautics	DE	MA.5. 1.2.4	Use partial products to verify how multiplication algorithms work
Adventures in Aeronautics	DE	MA.5. 1.2.5	Use and apply various meanings of multiplication and division (e.g., fair share, repeated addition/ subtraction, compare, rate)
Adventures in Aeronautics	DE	MA.5. 1.2.8	Multiply fractions by whole numbers using models such as: clock fractions, number/ratio tables, number lines, fractions strips, skip counting or array models
Adventures in Aeronautics	DE	MA.5. 3.3.10	Measurement. Find elapsed time